

# LPV2 (Low Profile Variable Speed 2) Series

Hot Water/Steam Heated

Model Lengths: 25"–144"

Environmental Separation (up to 8')

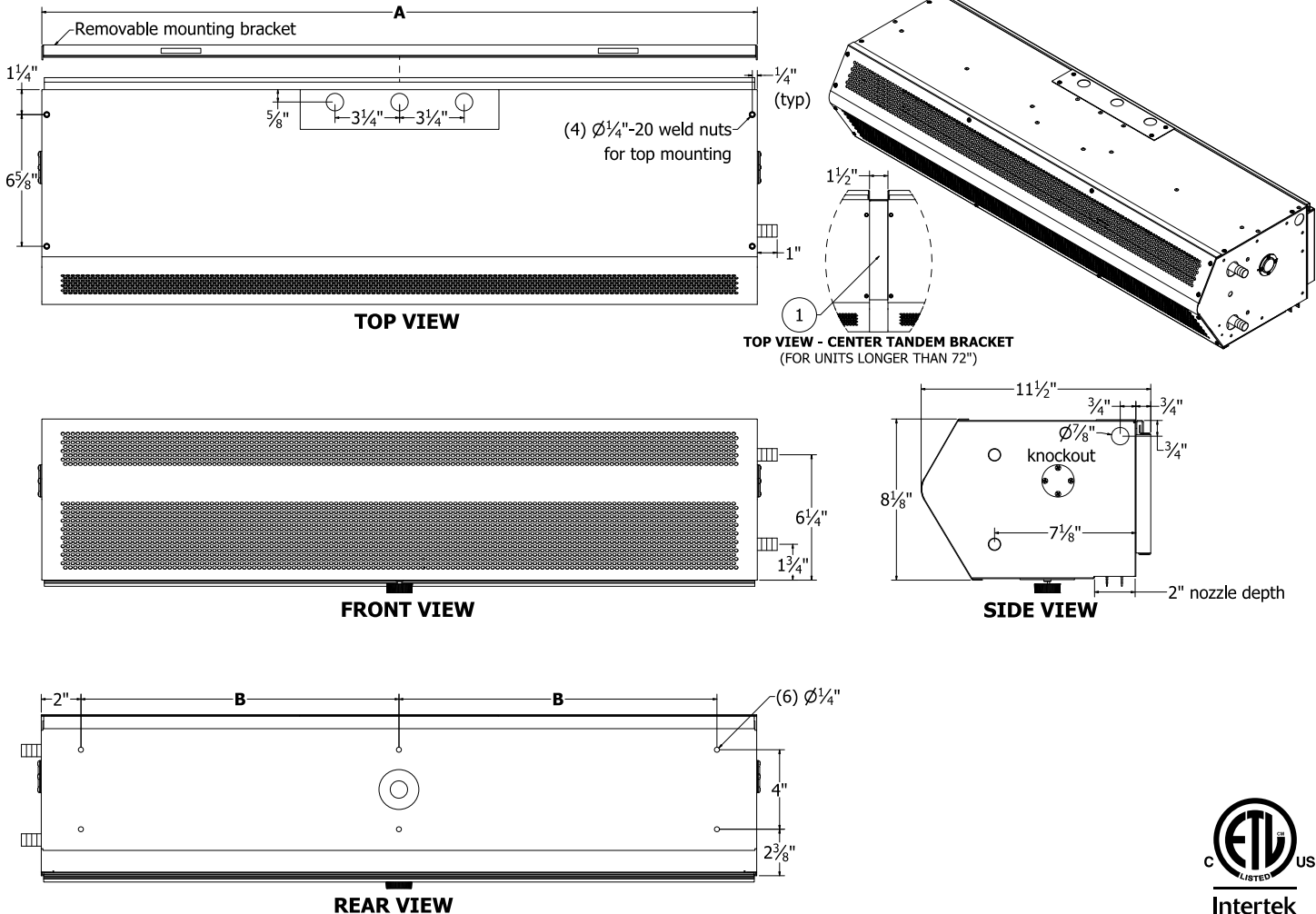
Insect Control (up to 7')



atmosphere is everything

14716 S. BROADWAY, GARDENA, CA 90248 • Ph: (310)532-1555 • Fax: (310)-532-3030 • [www.marsair.com](http://www.marsair.com)

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## Notes:

- Units up to 72" in width can be fastened to wall on both ends without intermediate support. Longer units are double units joined by a 1 1/2" mounting bracket and must be supported in the center.
- Recommended service clearances are 12" to the left and right sides, 24" on top, and 24" in front of the unit.
- Circuit protection (per NEC) to be installed by others.
- To prevent accidental damage during operation, unit must be installed so that the bottom of the air curtain does not extend below the door header.
- 1/2" MPT coil connections.

Model Number	Mechanical Data					Lab Data	
	Overall Length A (in)	Nozzle Length (in)	Rear Mounting Distance B (in)	Motor (hp)	Weight (lb)	Max Velocity (fpm)	Max Volume (cfm)
□ LPV236-1V*-OB	36	36	16	1/6	40	1800	900
□ LPV242-1V*-OB	42	42	19	1/6	45	1800	1050
□ LPV248-1V*-OB	48	48	22	1/6	52	1800	1200
□ LPV260-1V*-OB	60	60	28	1/6	60	1800	1500
□ LPV272-1V*-OB	72	72	34	1/6	75	1800	1800
□ LPV284-2V*-OB	85 1/2	85 1/2	19	(2) 1/6	90	1800	2100
□ LPV296-2V*-OB	97 1/2	97 1/2	22	(2) 1/6	104	1800	2400
□ LPV2108-2V*-OB	109 1/2	109 1/2	25	(2) 1/6	112	1800	2700
□ LPV2120-2V*-OB	121 1/2	121 1/2	28	(2) 1/6	120	1800	3000
□ LPV2144-2V*-OB	145 1/2	145 1/2	34	(2) 1/6	150	1800	3600

\* – Use corresponding letters in "Electrical Data" column headers (see page 2) to complete the model numbers.

Note: above data is for 60 Hz at 1550 RPM. For 50 Hz, RPM is 1300 with a 17% reduction in performance.

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MARS AIR SYSTEMS, LLC • GARDENA, CA • USA

LPV2 Hot Water-Steam Heated, 10 June 2024

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## Standard Features:

### Air Curtain

- ❖ ETL-certified to conform to UL 1995 (US) and CSA 22.2 (Canada) standards for indoor use
- ❖ Sleek self-contained one-piece heavy-gauge corrosion-proof paint lock metal design
- ❖ Fire retardant and rust preventative electrostatic polyurethane powder coating
  - Standard color is Obsidian Black (OB)
- ❖ 1/6 HP continuous duty motors (NEMA 1)
- ❖ Variable speed controller with off setting
- ❖ Adjustable air directional vane with 40° sweep front to back
- ❖ Removable wall mounting bracket for easy installation
- ❖ 18-months parts warranty
- ❖ Freight included (FOB continental USA)
- ❖ Proudly made in the USA

### Hot Water and Steam Coils

- ❖ Coil casings shall not be less than 16-gauge galvanized steel with tube holes formed with extruded collars
- ❖ Fins are die formed 0.006" aluminum (1 row – 10 FPI)
- ❖ Coil tubes constructed of heavy wall, 5/8" OD seamless copper
- ❖ Coil tubes are mechanically expanded into fins to ensure a uniform pressure bond
- ❖ Manifolds shall be of heavy seamless copper construction
- ❖ All joints shall be brazed with high temperature silver brazing alloy (7%), max steam operating pressure: 30 PSI
- ❖ Fittings shall be of wrought copper or similar construction such that the entire fluid circuit shall be of compatible nonferrous materials
- ❖ Manifold shall be fitted with 1/4" vent or drain fittings
- ❖ Supply and Return fitting is to be on the righthand side (specify alternate location)

## Mars Recommended Accessories (see [catalog](#) for complete listing):

- ❖ [Door Limit Switches](#) (\$) ☐ 99-014, Combination mechanical switch, 250V, 1HP Max
  - ❖ [Solid State Controllers](#) (\$) ☐ J0021, Commercial low voltage controller, 115V, 1Ø, adjustable time delay, with commercial plastic surface mounted door limit switch (field installed) ☐ J0022, Commercial low voltage controller, 208-277V, 1Ø, adjustable time delay, with commercial plastic surface mounted door limit switch (field installed)
  - ❖ [Thermostats](#) (\$) ☐ 99-063, Thermostat, line voltage up to 250V max, single stage, single pole
  - ❖ [Brackets](#) (\$) ☐ B0042, Transom mounting bracket set for LPV2
- (S) = Shipped loose

### Sound Levels (measured at 10' in a free field):

25-36" Units = 49 dBA, 42" Unit = 50 dBA, 48" Unit = 52 dBA, 60-96" Units = 53 dBA, 108-144" Unit = 54 dBA

Coil Data	Hot Water				Steam		
	Coil Code (V)	GPM	MBH	Temp Rise (°F)	Coil Code (V)	MBH	Temp Rise (°F)
<input type="checkbox"/> LPV236-1V*-OB	1 Row	6	25	26	1 Row	26	37
<input type="checkbox"/> LPV242-1V*-OB	1 Row	6	30	26	1 Row	43	38
<input type="checkbox"/> LPV248-1V*-OB	1 Row	6	34	26	1 Row	49	38
<input type="checkbox"/> LPV260-1V*-OB	1 Row	7	44	27	1 Row	62	38
<input type="checkbox"/> LPV272-2V*-OB	1 Row	8	54	28	1 Row	76	39
<input type="checkbox"/> LPV284-2V*-OB	1 Row	12	60	26	1 Row	85	38
<input type="checkbox"/> LPV296-2V*-OB	1 Row	12	68	26	1 Row	99	38
<input type="checkbox"/> LPV2108-2V*-OB	1 Row	13	78	26	1 Row	112	38
<input type="checkbox"/> LPV2120-2V*-OB	1 Row	14	88	27	1 Row	125	39
<input type="checkbox"/> LPV2144-2V*-OB	1 Row	16	108	27	1 Row	151	39

\* - Use corresponding letters in "Voltage Code" column headers to complete the model numbers.

EAT: 70 F, EWT: 200 F, Steam pressure: 5 PSI

Electrical Data Full Load Amp (FLA)	Unit Voltage (Voltage Code)	
	115V/1Ø <input type="checkbox"/> (A)	208-230V/1Ø <input type="checkbox"/> (D)
<input type="checkbox"/> LPV236-1V*-OB	2.4	1.2
<input type="checkbox"/> LPV242-1V*-OB	2.4	1.2
<input type="checkbox"/> LPV248-1V*-OB	2.4	1.2
<input type="checkbox"/> LPV260-1V*-OB	2.6	1.4
<input type="checkbox"/> LPV272-1V*-OB	2.6	1.4
<input type="checkbox"/> LPV284-2V*-OB	4.8	2.4
<input type="checkbox"/> LPV296-2V*-OB	4.8	2.4
<input type="checkbox"/> LPV2108-2V*-OB	5.0	2.6
<input type="checkbox"/> LPV2120-2V*-OB	5.2	2.8
<input type="checkbox"/> LPV2144-2V*-OB	5.2	2.8

\* - Use corresponding letters in "Voltage Code" column headers to complete the model numbers.

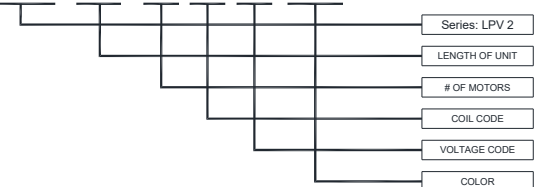
Ampacity (MCA) = total FLA X 1.25

Alternate voltage codes with FLA data:

-220V/1Ø/50Hz (U) – 0.9A per motor

### EXAMPLE

**LPV2 72 - 1 V D - OB**



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